



# BILLY GOAT AERATOR Owner's Manual

AE401, AE401H, AE401H5T Replacement Parts

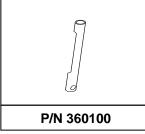
### TINE ROW KIT

Complete tine row set for replacement of one complete row of tines. Includes mounting plates, spacer, and all hardware.

P/N 360197

### TINE KIT

Individual coring tine for replacement of worn or broken tines.





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Go to <u>http://www.billygoat.com</u> for French-Canadian translations of the product manuals.

Visitez <u>http://www.billygoat.com</u> pour la version canadienne-française des manuels de produits



	AE401	AE401H	AE401H5T
Engine: HP	5.5 (4.1 kW)	4.0 (2.98 kW)	4.0 (2.98 kW)
Engine: Model	1273520197B1	GX120K1HX2	GX120K1HX2
Engine: Type	<b>B&amp;S INTEK</b>	HONDA OHV	HONDA OHV
Engine: Fuel Capacity	3.0 qt. (2.84 L)	2.1 qt. (2.0 L)	2.1 qt. (2.0 L)
Engine: Oil Capacity	0.66 qt. (0.62 L)	0.63 qt. (0.6 L)	0.63 qt. (0.6 L)
Total Unit Weight:	244# (109.8 Kg)	242# (109.8 Kg)	248# (109.8 Kg)
Max. operating slope	20°	20°	20 <sup>°</sup>
Sound test in accordance with 2000/14/EC	115 dB(a)	115 dB(a)	115 dB(a)
Sound at operators ear	95 dB(a)	95 dB(a)	95 dB(a)
Vibration at operator position	0.3g (2.97 m/s <sup>2</sup> )	0.3g (2.97 m/s <sup>2</sup> )	0.3g (2.97 m/s <sup>2</sup> )

## SOUND

🕥 L.

115

SOUND LEVEL 95 dB(a) at Operators Position

Sound tests were conducted in accordance with 2000/14/EC, and were performed on 2-13-2002 under the conditions listed below.

Sound power level listed is the highest value for any model covered in this manual. Please refer to serial plate on the unit for the sound power level for your model.

General Conditions: Temperature: Wind Speed: Wind Direction: Humidity: Barometric Pressure: Sunny 48°F (8.9°C) 2 mph (3.2 kmh) South East 29% 30.34Hg (770 mm Hg)

## **VIBRATION DATA**

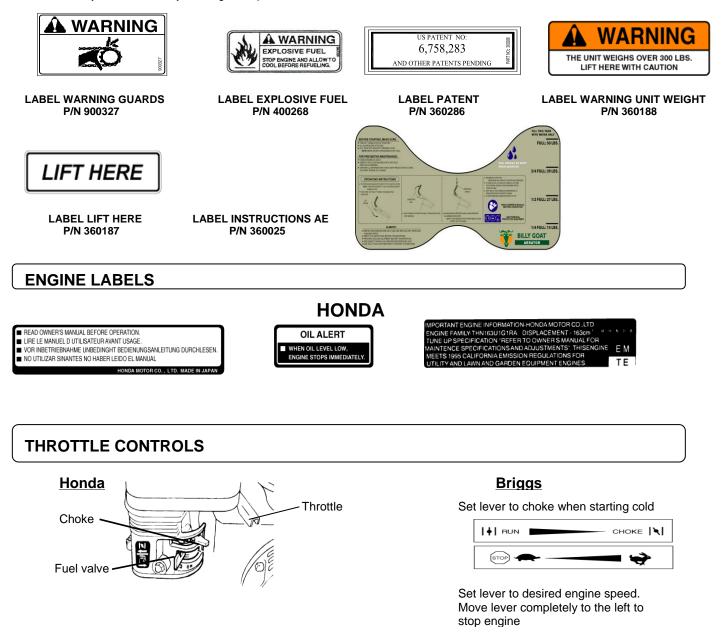
VIBRATION LEVEL .3g (2.97 m/s<sup>2</sup>)

Vibration levels at the operator's handles were measured in the vertical, lateral and longitudinal directions using<br/>calibrated vibration test equipment. Tests were performed on 5-25-2006 under the conditions listed below.<br/>
General Conditions:<br/>
Temperature:<br/>
Wind Speed:<br/>
Wind Direction:<br/>
Humidity:<br/>
Barometric Pressure:<br/>
Sunny<br/>
29.9Hg (101.3kpa)



## INSTRUCTION LABELS

The labels shown below were installed on your BILLY GOAT <sup>®</sup> Aerator. If any labels are damaged or missing, replace them before operating this equipment. Part numbers from the Illustrated Parts List are provided for convenience in ordering replacement labels. The correct position for each label may be determined by referring to the part numbers shown.



## PACKING CHECKLIST

Your Billy Goat is shipped from the factory in one carton, completely assembled.

**READ** all safety instructions before assembling unit.

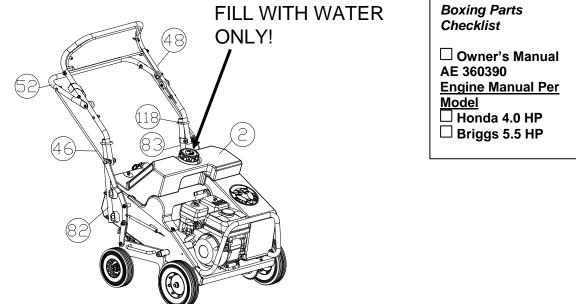
TAKE CAUTION when removing the unit from the box.

PUT OIL IN ENGINE BEFORE STARTING



## <u>PARTS BAG &</u> LITERATURE ASSY

Warranty card P/N- 400972, Owner's Manual P/N-360390, General Safety and Warnings Manual Renovation-100295, Declaration of Conformity P/N-360194.



## <u>ASSEMBLY</u>

1. **UNFOLD** the upper handle (item 48) and slide handle lock loops (item 118) into place to secure the upper handle to the lower handle (item 82 & 83).

2. **ASSEMBLE** the water tank to the unit and secure with the two carriage bolts, two locknuts and washers (items 137, 105 and 111) that can be found in the parts bag.

3. FILL the water tank (item 2) to desired weight with water ONLY.

4. **CHECK** engine oil level and fill to proper level. Also check oil in gear reduction reservoir and fill if necessary. See engine owner's manual for type and amount of oil to use. Move the tine engagement lever to the down position, to level engine during checking.

5. **CONNECT** spark plug wire. Set the engine stop switch to the **ON** position. You will use the stop switch on the handle during operation.



## OPERATION

### PARKING

NEVER PARK THIS UNIT ON A SLOPE OF ANY KIND. Always keep tines in the up position when parking the unit.

### TINES RAISING/LOWERING

The tines are raised or lowered into the ground by operating the tine engagement lever on the upper handle. Tine penetration is very dependent on surface preparation. READ the entire operation section before aerating.

### **AERATING OPERATION**

MOW: Mow the lawn to its normal cut height.

**WATER:** For the best performance and maximum tine penetration the lawn should be thoroughly watered the day before aeration.

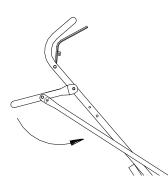
**INSPECT** lawn before beginning work. Remove all rocks, wire, string, or other objects that can present a hazard during work prior to starting.

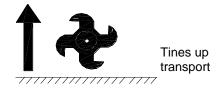
**IDENTIFY** and mark all fixed objects to be avoided during work, such as sprinkler heads, water valves, buried cables, or clothes line anchors, etc.

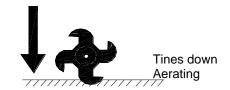
**START ENGINE:** See Safety and General Operation manual.

**SET SPEED:** The ground speed of your aerator varies with the engine speed. Set the engine at approximately half throttle to start. Speed may be increased based on the turf conditions (i.e. large flat areas) and operator experience. Speed should be lowered when operating under adverse turf conditions (i.e. fenced areas, hills, or slopes).

**MOVE:** Be sure the tine engagement control is in the up position (tines out of the ground) and engage the wheel drive by squeezing the operators clutch bail against the handle. Transport the aerator to the work area.







**ENGAGE TINES:** With the aerator in the work area, release the clutch bail and push forward on the tine engagement lever, lowering the tines into the dirt.

AERATE: Engage the operators clutch bail by pushing it pulling it backwards from the handle, and start aerating.

NOTE: For maximum tine penetration apply downward pressure on the handle.

**TURNING:** At the end of an aerating run, release the clutch bail and lift up on the tine engagement control to lift the tines out of the ground. Using the handle lift the front of the unit to pivot it around and line up for the next pass.

**TRANSPORT:** Be sure to lift the tine engagement lever (tines out of the ground) before transporting away from the work area. **AERATING TIPS** 

**WATER:** For the best performance and maximum tine penetration, the lawn should be thoroughly watered the day before aeration.

**SLOPES:** Do not operate the aerator on steep slopes. Use extreme caution when operating on any sloped surface. For lesser sloped areas operate the unit, traversing up and down at a 45 degree angle to the slope rather than straight across. Extended operation on steep slopes can cause engine damage.

NOTE: DO NOT release the operators clutch bail when operating on a slope. This will allow the unit to free wheel and allow the unit to roll down the slope.

NOTE: Honda engines are equipped with a low oil sensor to prevent engine damage. When it senses a low oil condition (i.e. unit is operating or sitting on a steep slope) the engine shuts down. The low oil condition must be corrected before the engine can be restarted. See the engine owner's manual for more information.

**TINE PENETRATION:** Maximum tine penetration is achieved by applying downward pressure on the handle during operation.

**TURNING:** At the end of a pass the tines can be lifted out of the ground to turn by lifting straight up on the operators handle.



### **FOLDING HANDLE**

This unit is equipped with a folding upper handle for easier storage. TO FOLD THE HANDLE (See Fig. 3):

1. Slide handle lock loops (item 118) up on both sides.

2. Fold the upper handle (item 48).



Fig 3

Fig 4

## MAINTENANCE

### PERIODIC MAINTENANCE

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every Use (daily)	Every 25 hrs	Every 50 Hours
Inspect for loose, worn or damaged parts.		•	
Check engine oil.	•		
Inspect belt for wear.			•
Engine (See Engine Manual)			
Oil chains (see lubrication).		•	
Thoroughly clean all debris from unit and tine reel	•		
Check tine reel nut torque. Torque to min. 100 ft.lbs.			•
Check gear reduction oil level		•	
Grease bearings (see lubrication).			•

ENGINE MUST BE LEVEL WHEN CHECKING OR FILLING OIL

## TINE REEL REMOVAL AND TINE ROW REPLACEMENT

### TINE REEL REMOVAL

## NOTE: Tine reel removal is only necessary to replace an entire tine row or for other major unit maintenance. Individual tines can be replaced by following the INDIVIDUAL TINE REPLACEMENT instructions.

1. Wait for engine to cool and disconnect spark plug.

- 2. Remove the top guard by removing the four nuts, two on each side that secures it to the frame.
- 3. Release the tension on the chain. See CHAIN TENSION ADJUSTMENT in this manual.
- 4. Remove the four bolts and nuts, two on each side, holding the tine reel bearings in place. BE CAREFUL the tine reel is heavy and sharp. Take precautions to not allow it to fall when the bearing bolts are removed.
- 5. Lift the reel up and to the side to remove it from the drive chain.
- 6. See TINE ROW REPLACEMENT for instructions on maintenance.
- 7. To reinstall the reel follow the above steps in reverse.
- 8. Replace the guard and reinstall the four nuts that secure it in place.

### TINE ROW REPLACEMENT

- 1. Wait for engine to cool and disconnect spark plug.
- 2. Remove the top guard by removing the four nuts, two on each side that secures it to the frame.
- 3. Remove the tine reel per the TINE REEL REMOVAL instructions.
- 4. Remove the nut at the end of the tine reel shaft that secures the tine rows in place.

5. Remove the tine rows and spacers as necessary to replace the defective part. Be sure to note the order in which the spacers were removed for later reassembly.

6. Reassemble the tine reel in the exact order that it was disassembled.

7. Tighten the nut that secures the tine rows and spacers on the shaft. Torque the nut to a minimum of 100 ft. lbs. Check that all of the tine rows are tight by attempting to move them by hand.

8. Reinstall the tine reel per the TINE REEL REMOVAL instructions above.

9. Reset the tension on the chain.

10. Replace the guard and reinstall the four nuts that secure it in place.

TIP: Spraying times with a rust preventing lubricant can increase time life and allow for easier replacement of worn or damaged times.





### INDIVIDUAL TINES REPLACEMENT

**1.** Wait for engine to cool and disconnect spark plug.

- 2. Loosen but do not remove the outermost nut and carriage bolt that secure the damaged or worn tine.
- 3. Loosen and remove the innermost nut and carriage bolt that hold the tine in the reel.
- 4. Use a small pry bar and push the tine plates apart slightly to slide out the tine to be replaced.
- 5. Slide the new tine in place and secure with the innermost nut and carriage bolt. Tighten completely.
- 6. Retighten the outermost nut and carriage bolt to completely secure the new tine.
- 7. Repeat as required to replace all damaged or worn tines.

NOTE: Tines are a normal wear item and should be inspected regularly for signs of wear or damage.

### BELT AND CHAIN TENSION ADJUSTMENT

### ADJUSTING BELT TENSION-

1. Remove the top guard (item 3) by removing the four nuts (item 87), two on each side, that secure it to the frame.

2. Locate the top of the belt idler assembly where the clutch cable (item 55) is secured in place. A properly tensioned belt should stretch the idler spring (located next to the idler pulley) between 1/4" - 3/8" when the clutch bail (item 54) is held in the drive position. 3. Using a 1/2" wrench loosen the two nuts that secure the cable (item 55) in place.

4. TO INCREASE belt tension adjust these two nuts so that the cable (item 55) is secured in place with an additional 1/4" of the threaded adjuster at the top of the assembly.

TO DECREASE belt tension, adjust these two nuts so that the cable (item 55) is secured in place with 1/4" less of the threaded adjuster at the top of the assembly.

5. Replace the guard (item 3) and reinstall the four nuts (item 87) that secure it in place.

6. Run the unit to test your adjustment. Repeat as necessary to achieve proper adjustment. A properly adjusted belt will pull the unit up a 15 degree slope when clutched without any belt slip, and will declutch and stop the unit completely when the clutch is released.

NOTE: Never release the clutch on a slope. The unit is heavy and will free wheel down hill.

**NOTE**: A worn belt will not allow for proper adjustment and must be replaced.

### ADJUSTING CHAIN TENSION-

1. Remove the top guard (item 3) by removing the four nuts (item 87), two on each side, that secure it to the frame.

2. Locate the bolt (item 31, 33) and nut (item 80) that hold each idler sprocket to the frame of the unit. One idler sprocket sets tension on the wheel drive chain and one sets tension on the tine drive chain.

3. Loosen the bolt and nut and slide the idler sprocket (item 29) in the desired direction.

INCREASED TENSION: Slide the sprocket to the rear.

DECREASED TENSION: Slide the idler sprocket to the front.

4. Tighten the bolt and nut to secure the sprocket in place.

5. Replace the guard and reinstall the four nuts that secure it in place.

**NOTE**: Over tensioning the chain will cause premature chain and sprocket wear. DO NOT OVER TENSION THE CHAIN. A properly tensioned chain will have slack of 1/4"-3/8" when moved by hand.





### DRIVE BELT REPLACEMENT

- 1. Wait for engine to cool and disconnect spark plug.
- 2. Remove the top guard by removing the four nuts, two on each side, that secure it to the frame.
- 3. Slide the belt off of the engine drive pulley, and off of the jackshaft drive pulley.
- 4. Continue sliding the belt along the jackshaft to the right jackshaft bearing away from the pulley and sprockets.
- 5. Using a 9/16" wrench, remove the two bolts and nuts that hold the jackshaft bearing in place.
- 6. Carefully lift the jackshaft up until the belt can be slid out underneath the bearing.
- 7. Slide the new belt in place over the jackshaft.

8. Replace and tighten the bolts and nuts holding the jackshaft bearing in place. Be sure that the jackshaft is aligned straight across between both bearings.

9. Slide the belt along the jackshaft and over both engine and jackshaft pulleys. Be sure the idler pulley is positioned on the flat side of the belt.

10. Check proper belt tension. See BELT TENSION ADJUSTMENT in this manual.

### CHAIN REPLACEMENT

### NOTE: This procedure will work to change the wheel drive chain or the tine drive chain.

- 1. Wait for engine to cool and disconnect spark plug.
- 2. Remove the top guard by removing the four nuts, two on each side, that secure it to the frame.
- 3. Roll the unit until the master link of the chain that you want to replace is exposed near the jackshaft sprocket.
- 4. Release the tension on the chain. See CHAIN TENSION ADJUSTMENT in this manual.
- 5. Using a screwdriver or similar device, remove the spring clip that secures the master link in the chain.
- 6. With the master link removed unwind the chain from the two sprockets that it connects.

7. Carefully string the replacement chain around the same two sprockets and reconnect it with the new master link provided with your replacement chain.

- 8. Re set the tension on the chain.
- 9. Replace the guard and reinstall the four nuts that secure it in place.

### LUBRICATION

#### **BEARINGS-**

1. Remove the top guard by removing the four nuts, two on each side that secures it to the frame. **NOTE**: Guard must be removed to lubricate the jackshaft bearings only. All other bearings can be lubed without removing the guard.

- 2. Lubricate all 6 bearings using a pressurized grease gun with standard lithium based grease.
- 3. Wipe any excess grease off of all bearings and fittings after each lubrication.
- 4. Replace the guard and reinstall the four screws that secure it in place.

### CHAINS-

- 1. Remove the top guard by removing the four nuts, two on each side that secures it to the frame.
- 2. Apply a light coat of No. 30 Oil or a penetrating chain lubricant to keep the chain clean and in good running order.
- 3. Replace the guard and reinstall the four screws that secure it in place.

NOTE: If machine is cleaned with a pressure washer the chains and bearings should be lubricated after each cleaning.

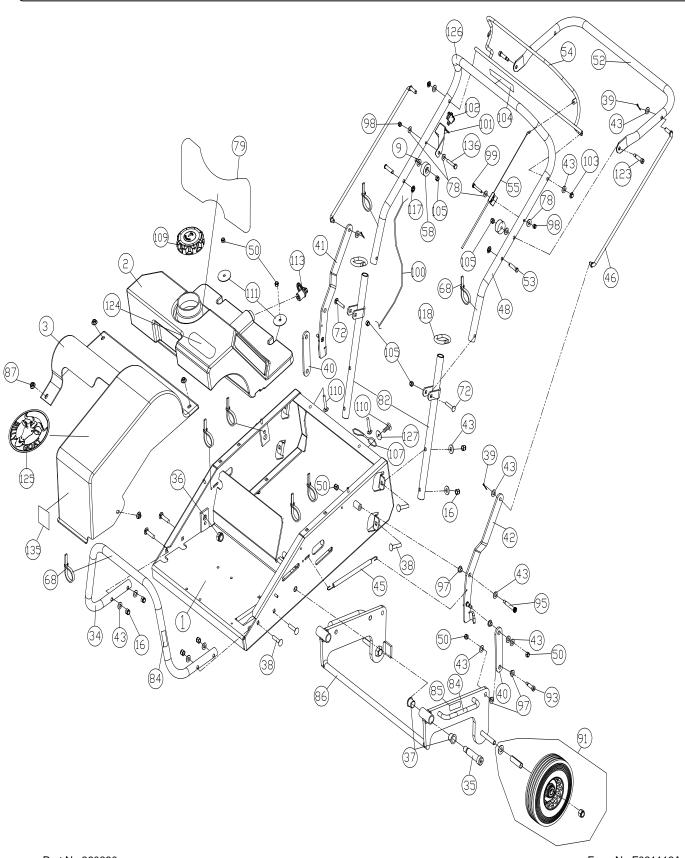


## Troubleshooting

Problem	Possible Cause	Solution
Engine will not start.	Stop switch off (Honda only). Throttle in off position. Engine not in full choke position. Out of gasoline. Bad or old gasoline. Spark plug wire disconnected. Dirty air cleaner. Engine oil level too low (Honda only).	Check stop switches, throttle, choke position and gasoline. Connect spark plug wire. Clean or replace air cleaner. Or contact a qualified service person. Check and fill engine oil.
Abnormal vibration.	Damaged or missing tines. Loose handle bolts. Loose engine bolts.	Stop work immediately. Replace any damaged or missing tines. Tighten all loose bolts and nuts.
Engine is making loud noise or squealing	Gear reduction oil level is low	Check and add oil according to engine owner's manual
Engine stalls or labors when aerating	Working on too steep of a slope. Not enough oil in the engine.	Work at 45 degrees to the slope moving up and down instead of of across. Check and add engine oil.
Engine is locked, will not pull over.	Debris locked against reel, or drive pulleys. Engine problem.	Pull spark plug wire and remove debris. Contract an engine servicing dealer for engine problems.
Unit does not move when clutch is engaged.	Belt drive out of adjustment. Worn drive belt. Loose or damaged chain or sprockets. Loose or damaged pulleys. Damaged or broken clutch cable.	See maintenance on pg. 12 of this manual. Contact a qualified servicing dealer.



## PARTS DRAWING AE



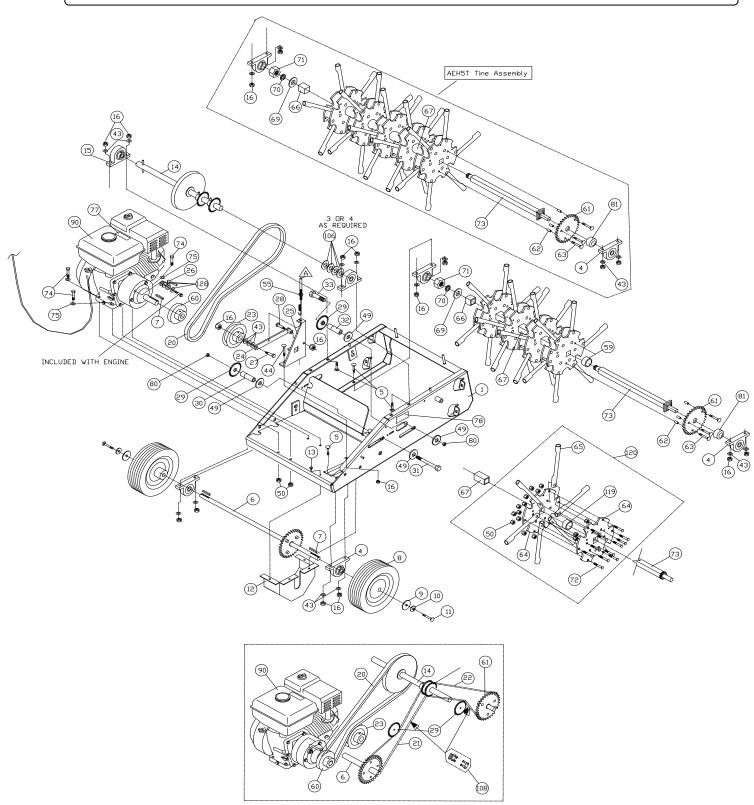


## PARTS LIST AE

ITEM NO.	DESCRIPTION	AE401 Part No.	QTY	AE401H5T Part No.	QTY	AE401H Part No.	QTY
1	FRAME ASSEMBLY WA AE402	360324	1	360324	1	360324	1
2	WATER TANK 5.5 GAL	360238	1	360238	1	360238	1
3	GUARD DRIVE COVER	360201	1	360280	1	360280	1
9	WASHER 5/16 FENDER	8172020	2	8172020	2	8172020	2
16	NUT LOCK 3/8-16	8160003	8	8160003	8	8160003	8
34	TUBE FRONT BUMPER	360329	1	360329	1	360329	1
35	BOLT SHOULDER 3/4 x 2.5	360146	2	360146	2	360146	2
36	NUT LOCK 5/8-11 THIN	8161046	2	8161046	2	8161046	2
37	BUSHING PIVOT	360183	4	360183	4	360183	4
38	BOLT CARRIAGE 3/8-16 x 1.75"	8024061	8	8024061	8	8024061	8
39	COTTER PIN	8197031	4	8197031	4	8197031	4
40	BRACKET LIFT LINK	360246	2	360246	2	360246	2
41	PLATE LINKAGE RH LONG WA AE	360328	1	360328	1	360328	1
42	PLATE LINKAGE LH LONG WA AE	360327	1	360327	1	360327	1
43	WASHER FLAT 3/8 SAE	8172009	22	8172009	22	8172009	22
45	SPRING EXTENSION	360154	2	360154	2	360154	2
46	ROD LIFT	360330	2	360330	2	360330	2
48	HANDLE UPPER AE	350375	1	350375	1	350375	1
50	NUT LOCK 5/16-18	8160002	8	8160002	8	8160002	8
52	HANDLE LIFT	360296	1	360296	1	360296	1
53	CLEVIS PIN 3/8" X 1.625	520119	2	520119	2	520119	2
54	BAIL CLUTCH	350374	1	350374	2	350374	2
	CABLE CLUTCH ASSY		1		1		1
55	BUMPER RECESS	360313		360313 360298		360313 360298	
58		360298 900407	2		2		2
68			8	900407	8	900407	8
72	CARRIAGE BOLT 5/16-18X1.75	8024043	2	8024043	2	8024043	2
78	WASHER 1/4 SAE	8172007	4	8172007	4	8172007	4
79		360025	1	360025	1	360025	1
82	HANDLE LOWER WA	360321	2	360321	2	360321	2
84		360187	4	360187	4	360187	4
85		360188	2	360188	2	360188	2
86	FRAME REAR WA	360267	1	360267	1	360267	1
87					4	900453	4
01	NUT FLANGE 1/4-20	900453	4	900453	-	000004	-
91	TIRE & WHEEL 8" ASSY	360334	2	360334	2	360334	2
93	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1"	360334 360152	2 2	360334 360152	2	360152	2
93 95	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2"	360334 360152 360153	2 2 2	360334 360152 360153	2	360152 360153	2 2
93 95 97	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID	360334 360152 360153 360175	2 2 2 8	360334 360152 360153 360175	2 2 8	360152 360153 360175	2 2 8
93 95 97 98	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN	360334 360152 360153 360175 8160001	2 2 2 8 2 2	360334 360152 360153 360175 8160001	2 2 8 2	360152 360153 360175 8160001	2 2 8 2
93 95 97 98 99	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2"	360334 360152 360153 360175 8160001 8041009	2 2 2 8 2 1	360334 360152 360153 360175 8160001 8041009	2 2 8 2 1	360152 360153 360175 8160001 8041009	2 2 8 2 1
93 95 97 98 99 100	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE	360334           360152           360153           360175           8160001           8041009           360316	2 2 2 8 2 1 1	360334 360152 360153 360175 8160001 8041009 360316	2 2 8 2 1 1	360152 360153 360175 8160001 8041009 360316	2 2 8 2 1 1
93 95 97 98 99 100 101	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH	360334           360152           360153           360175           8160001           8041009           360316           430141	2 2 2 8 2 1 1 1 1	360334 360152 360153 360175 8160001 8041009 360316 430141	2 2 8 2 1 1 1 1	360152 360153 360175 8160001 8041009 360316 430141	2 2 8 2 1 1 1
93 95 97 98 99 100 101 102	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF	360334           360152           360153           360175           8160001           8041009           360316           430141           500281	2 2 2 8 2 1 1 1 1 1 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281	2 2 8 2 1 1 1 1 1 1	360152 360153 360175 8160001 8041009 360316 430141 500281	2 2 8 2 1 1 1 1 1
93 95 97 98 99 100 101 102 103	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218	2 2 2 8 2 1 1 1 1 1 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218	2 2 8 2 1 1 1 1 1 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218	2 2 8 2 1 1 1 1 2
93           95           97           98           99           100           101           102           103           104	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503	2 2 2 8 2 1 1 1 1 1 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503	2 2 8 2 1 1 1 1 1 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503	2 2 8 2 1 1 1 1 2 1
93           95           97           98           99           100           101           102           103           104           105	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041	2 2 8 2 1 1 1 1 1 2 1 4	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041	2 2 8 2 1 1 1 1 2 1 4	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041	2 2 8 2 1 1 1 1 2 1 4
93           95           97           98           99           100           101           102           103           104           105           107	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360243	2 2 8 2 1 1 1 1 2 1 4 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243	2 2 8 2 1 1 1 1 2 1 4 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243	2 2 8 2 1 1 1 1 2 1 4 2
93           95           97           98           99           100           101           102           103           104           105           107	TIRE & WHEEL 8" ASSY         BOLT SHOULDER 3/8 x 1"         BOLT SHOULDER 3/8 x 2"         BUSHING SHOULDER NYLON 3/8 ID         NUT LOCK 1/4x 20 THIN         SCREW CAP 1/4 - 20 x 1 1/2"         HARNESS WIRE AE         BRACKET MOUNT SWITCH         SWITCH ON-OFF         NUT LOCK 5/16 -18 THIN         PLASTIC LANYARD         CAP WATER TANK	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360243           360256	2 2 8 2 1 1 1 1 1 2 1 4 2 1 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256	2 2 8 2 1 1 1 1 2 1 4 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256	2 2 8 1 1 1 1 1 2 1 4 2 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8"	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360243           360256           890359	2 2 8 1 1 1 1 2 1 1 4 2 1 1 4 1 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359	2 2 8 2 1 1 1 1 2 1 4 2 1 1 4 2 1 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359	2 8 2 1 1 1 1 2 1 4 2 1 1 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360243           360256           890359           810652	2 2 8 1 1 1 1 1 2 1 4 2 1 1 2 1 1 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 2 1 1 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652	2 2 8 2 1 1 1 1 1 2 1 4 2 1 1 2
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1"	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360293	2 2 8 1 1 1 1 2 1 4 2 1 1 2 1 1 2 1 1 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293	2 8 2 1 1 1 1 1 2 1 4 2 1 1 2 1 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8"	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360293           360279	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 1 2 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279	2 2 8 1 1 1 1 1 2 1 4 2 1 1 2 1 2 2 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279	2 8 2 1 1 1 1 1 2 1 4 2 1 1 2 1 2
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138	2 2 8 2 1 1 1 1 1 2 1 4 2 1 1 2 2 2 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138	2 2 8 1 1 1 1 1 2 1 4 2 1 1 2 2 1 2 2 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138	2 2 8 2 1 1 1 1 2 1 1 2 1 1 2 2 2
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 x 1 1/4"	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138           360279           350138           360284	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 1 2 2 1 2 2 2	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284	2 2 8 1 1 1 1 2 1 1 2 1 4 2 1 1 2 2 2 2 2	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284	2 2 8 1 1 1 1 1 1 2 1 1 2 2 2 2
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123           124	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 x 1 1/4" LABEL BILLY GOAT OVAL	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138           360284           360274	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 1 2 2 1 2 2 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274	2 2 8 1 1 1 1 2 1 4 2 1 1 2 1 2 2 2 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274	2 2 8 1 1 1 1 1 2 1 1 2 2 2 2 2 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123           124           125	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 x 1" BOLT SHOULDER 3/8 x 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4x 20 THIN SCREW CAP 1/4 - 20 x 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 x 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 x 1 1/4" LABEL BILLY GOAT OVAL LABEL BILLY GOAT CIRCLE	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138           360284           360274           430303	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 2 1 2 2 2 2 1 1 1 2 2 1 1 1 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274 430303	2 2 8 1 1 1 1 2 1 1 2 1 4 2 1 1 2 2 2 2 1 1 1 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360274 430303	2 2 8 2 1 1 1 1 1 2 2 2 2 2 2 2 1 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123           124           125           126	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 × 1" BOLT SHOULDER 3/8 × 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4 × 20 THIN SCREW CAP 1/4 - 20 × 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 × 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 × 1 1/4" LABEL BILLY GOAT OVAL LABEL BILLY GOAT CIRCLE GRIP	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138           360284           360274           430303           400570	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 2 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 1 1 2 1 1 2 1 1 2 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 1 2 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274 430303 400570	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360274 430303 400570	2 2 8 2 1 1 1 1 1 2 1 2 2 2 2 2 1 1 2 2 2 1 2
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123           124           125           126           127	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 × 1" BOLT SHOULDER 3/8 × 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4× 20 THIN SCREW CAP 1/4 - 20 × 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 × 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 × 1 1/4" LABEL BILLY GOAT OVAL LABEL BILLY GOAT CIRCLE GRIP 1/4 WASHER FLAT FENDER	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360243           360256           890359           810652           360279           350138           360284           360274           430303           400570           8172019	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 2 1 2 2 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274 430303 400570 8172019	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360274 430303 400570 8172019	2 2 8 2 1 1 1 1 1 2 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 1 2 1 1 2 2 1 1 1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 2 2 1
93           95           97           98           99           100           101           102           103           104           105           107           109           110           111           113           117           118           123           124           125           126	TIRE & WHEEL 8" ASSY BOLT SHOULDER 3/8 × 1" BOLT SHOULDER 3/8 × 2" BUSHING SHOULDER NYLON 3/8 ID NUT LOCK 1/4 × 20 THIN SCREW CAP 1/4 - 20 × 1 1/2" HARNESS WIRE AE BRACKET MOUNT SWITCH SWITCH ON-OFF NUT - PAL 3/8 CLUTCH LABEL NUT LOCK 5/16 -18 THIN PLASTIC LANYARD CAP WATER TANK SCREW SELF TAP 1/4-20 × 5/8" WASHER - EXTENSION PLUG DRAIN 1" RETAINER 3/8" LOOP FOLDING HANDLE BOLT SHOULDER 3/8 × 1 1/4" LABEL BILLY GOAT OVAL LABEL BILLY GOAT CIRCLE GRIP	360334           360152           360153           360175           8160001           8041009           360316           430141           500281           360218           830503           8161041           360256           890359           810652           360279           350138           360284           360274           430303           400570	2 2 2 8 2 1 1 1 1 2 1 4 2 1 4 2 1 2 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 1 1 2 1 1 2 1 1 2 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 1 2 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1	360334 360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360284 360274 430303 400570	2 2 8 2 1 1 1 1 2 1 4 2 1 1 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	360152 360153 360175 8160001 8041009 360316 430141 500281 360218 830503 8161041 360243 360256 890359 810652 360293 360279 350138 360274 430303 400570	2 2 8 2 1 1 1 1 1 2 1 2 2 2 2 2 1 1 2 2 2 1 2



PARTS DRAWING AE





## PARTS LIST AE

ITEM	DESCRIPTION	AE401	QTY	AE401H5T	QTY	AE401H	QTY
NO.		Part No.		Part No.		Part No.	
1	FRAME ASSEMBLY WA AE402	360324	1	360324	1	360324	1
4	BEARING 3/4" PILLOW BLOCK	350133	4	350133	4	350133	4
5	CARRIAGE BOLT 3/8-16 x 1 1/2	8024060	12	8024060	12	8024060	12
6	FRONT AXLE ASSY	360332	1	360332	1	360332	1
7	KEY SQUARE 3/16 x 3/16 x 1.25	9201080	3	9201080	3	9201080	3
8	WHEEL 10.5" SEMI PN. W3/4" KEYED HUB	360388	2	360388	2	360388	2
9	FENDER WASHER 5/16"	8172020	2	8172020	2	8172020	2
10	WASHER LOCK 5/16 TWISTED TOOTH	430298	2	430298	2	430298	2
11	SCREWCAP 5/16-18 x 1"	8041028	2	8041028	2	8041028	2
12	GUARD DIFFERENTIAL AE	360248	1	360248	1	360248	1
13	SCREW SELF TAP 1/4 x 1/2"	890359	2	890359	2	890359	2
14	JACKSHAFT AERATOR ASSY	360331	1	360331	1	360331	1
15	BEARING 1" PILLOW BLOCK	810700	2	810700	2	810700	2
15	NUT LOCK 3/8-16	8160003	16	8160003	16	8160003	16
20	BELT 4L x 43" POWER RATED	360120	10	360120	10	360120	10
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21	CHAIN #40 x 94 PITCH O-RING (WHEEL)	360115	1	360115	1	360115	1
22	CHAIN #40 x 76 PITCH O-RING (TINE)	360114	1	360114	1	360114	1
23	PULLEY IDLER 4.5"	500270	1	500270	1	500270	1
24	ARM IDLER WA	510199	1	510199	1	510199	1
25	BRACKET MOUNT IDLER	360121	1	360121	1	360121	1
26	BELT FINGER FRONT AE	360219	1	360219	1	360219	1
27	SCREWCAP 3/8"-16 X 2" HCS ZP	8041054	1	8041054	1	8041054	1
28	BOLT SHOULDER 1/2 x 1	500114	1	500114	1	500114	1
29	SPROCKET IDLER 17T x 5/8" BORE	360116	2	360116	2	360116	2
30	SPACER SPROCKET IDLER 2.5"	360123	1	360123	1	360123	1
31	SCREW CAP 1/2 - 13 x 4	8041106	1	8041106	1	8041106	1
32	SPACER SPROCKET IDLER 1.175"	360124	1	360124	1	360124	1
33	SCREW CAP 1/2 - 13 x 3"	8041102	1	8041102	1	8041102	1
43	WASHER FLAT 3/8 SAE	8172009	17	8172009	17	8172009	17
			_		_		
44	CARRIAGE BOLT 3/8"-16 X 1"	8024058	2	8024058	2	8024058	2
49	FLAT WASHER 1/2"	8171006	4	8171006	4	8171006	4
50	NUT LOCK 5/16-18	8160002	55	8160002	68	8160002	55
55	CABLE CLUTCH ASSY	360313	1	360313	1	360313	1
59	SPACER TINE SPROCKET END	360108	1	-	-	360108	1
60	PULLEY ENGINE	610417	1	610417	1	610417	1
61	SPROCKET 42 T	360106	1	360106	1	360106	1
62	SPACER - TINE SPROCKET 1.468	360272	3	360107	3	360272	3
63	SCREW CAP 5/16-18 x 3 1/2"	8041038	3	-	-	8041038	3
	SCREWCAP 5/16-18 X 2 1/2" HCS ZP	-	-	8041034	3	-	-
64	TINE PLATE	360101	8	360101	10	360101	8
65	TINE	360100	24	360100	30	360100	24
66	SPACER - NUT RIGHT END	360266	1	360282	1	360266	1
67	SPACER - BETWEEN TINE ASSEMBLIES	360265	3	360104	4	360265	3
69	HEAVY WASHER TINE ASSY	830113	1 or 2	830113	1 or 2	830113	1 or 2
70	WASHER LOCK 7/8" INTERNAL	350154	1	350154	1	350154	1
71	NUT JAM 7/8 -14 (Torque 100 ft.lbs)	350155	1	350155	1	350155	1
72	CARRIAGE BOLT 5/16-18X1.75	8024043	48	8024043	60	8024043	48
72	SHAFT TINE DRIVE	360102	1	360102	1	360102	1
73	SCREW CAP 5/16 - 18 x 1.5"	8041030	4	8041030	4	8041030	4
75		8171003	4	8171003	4	8171003	4
77	LABEL WARNING FUEL EN/SP	100261	1	-	-	-	-
78		900327	2	900327	2	900327	2
80	NUT LOCK 1/2 -13 THIN	8161044	2	8161044	2	8161044	2
81	SPACER BEARING/SPROCKET 0.375 THK	360109	1	360109	1	360109	1
90	ENGINE	360127	1	360278	1	360278	1
106	WASHER 1.062" ID X 1.75 OD	8172021	3 OR 4	8172021	3 OR 4	8172021	3 OR 4
108	CHAIN MASTER LINK	360205	2	360205	2	360205	2
					-	000405	4
119	SPACER - TINE PLATES	360105	4	360105	5	360105	4
	SPACER - TINE PLATES TINE ASSY (INCLUDES 50,64,65,72,&119)	360105 360197	4	360105 360197	5	360105	4